OPTICAL RETARDATION FILM AND ITS CONTINUOUS MANUFACTURING METHOD

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Abstract of JP2001215332

PROBLEM TO BIS SOLVED: To develop an optical relardation film with <=80 nm optical retardation and its stable and efficient manufacturing method with title variation in an orientation angular SOLUTION: The optical manufacturing method with title variation in an orientation angular solution. SOLUTION: The optical manufacturing film is composed of a norbonnene type polymer film. When its refractive indexes are expressed as nr., ny and that in the thickness direction is expressed and direction and the product of the difference of its refractive indexes between the norbon direction and the product of the difference of its refractive indexes between the norbon direction and the product of the difference of its refractive indexes between the norbon direction and the norbon manufacturing method comprises a step unlaxially stretching a long-tength film composed of the norbonnene type polymer at a temperature >=3 deg. C higher than the glass transition temperature of the polymer 1.1-3 times its length in the width direction. Consequently the optical relation film is botalized with the viction of the polymer and the norbon of the production, is excellent in heat resistance and is capable of highly precisely compensating variation of display characteristics due to the viewing engle of the libuid crystal cell.

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